Week 3 Exercise: Data Types and Variables

1. Create a variable `age` and assign it the value 25.

2. Create a variable `name` and assign it a string containing your name.

3. Print the type of the variable `age`.

4. Convert the variable `age` to a string and store it in a new variable `age_str`.

5. Create a variable `height` and assign it the value 175.5 (floating-point number).

6. Print the type of the variable `height`.

7. Create a variable `is_student` and assign it a boolean value representing whether you are a student or not.

8. Print the type of the variable `is_student`.

9. Create a list `colors` containing the names of three colors.

10. Print the second element of the list `colors`.

11. Create a tuple `dimensions` containing the length, width, and height of a box.

12. Print the third element of the tuple `dimensions`.

13. Create a dictionary `person` with keys "name", "age", and "city", and assign appropriate values.

14. Print the value associated with the key "age" in the dictionary `person`.

15. Create a set `unique_numbers` containing three unique integers.

16. Add a new integer to the set `unique_numbers`.

17. Create a variable `x` and assign it the value 10.

18. Increment the value of `x` by 5.

19. Create a variable `y` and assign it the value of `x` squared.

20. Swap the values of variables `x` and `y`.

Good Luck!!!